



SEQUENCE LISTING

<110> SHIRAI, Tomoyuki
ASAMOTO, Makoto
HOKAIWADO, Naomi

<120> Carcinogen-hypersensitive rat

<130> 671302-3004

<140> 10/784, 633

<141> 2004-02-23

<150> JP P2001-253241

<151> 2001-08-23

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<170> PatentIn Ver. 2.1

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<211> 1485

<212> DNA

<213> Rattus norvegicus

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<221> CDS

<222> (32).. (883)

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 Thr Leu Leu Ser Gly Val Asn Arg His Ser Thr Ala Ile Gly Arg Val
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tgg ctg tcc gtc atc ttt atc ttc aga atc atg gtg ctg gtg gtg gct 148
 Trp Leu Ser Val Ile Phe Ile Phe Arg Ile Met Val Leu Val Val Ala
 25 30 35

gca gag agc gtg tgg ggt gat gag aag tct tct ttc atc tgt aac acc 196
 Ala Glu Ser Val Trp Gly Asp Glu Lys Ser Ser Phe Ile Cys Asn Thr
 40 45 50 55

ctc cag ccg ggc tgt aac agc gtc tgc tat gac cat ttt ttc ccc atc 244
 Leu Gln Pro Gly Cys Asn Ser Val Cys Tyr Asp His Phe Phe Pro Ile
 60 65 70

tcc cat gtg cgc ctg tgg tcc ctg caa ctc atc ttg gtt tcc acc cca 292
 Ser His Val Arg Leu Trp Ser Leu Gln Leu Ile Leu Val Ser Thr Pro
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gct ctc ctc gtg gca atg cac gtg gct cac caa caa cac ata gaa aag 340
 Ala Leu Leu Val Ala Met His Val Ala His Gln Gln His Ile Glu Lys
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aaa atg cta cgg ctt gag ggg cac ggg gac ccc ctt cac ctg gaa gag 388
 Lys Met Leu Arg Leu Glu Gly His Gly Asp Pro Leu His Leu Glu Glu
 105 110 115

gta aag agg cac aag gtg cac atc tca ggg aca ctg tgg tgg acc tat 436
 Val Lys Arg His Lys Val His Ile Ser Gly Thr Leu Trp Trp Thr Tyr
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gtc atc agt gtg gtg ttc cgg ctg ctg ttt gag gct gtc ttc atg tat 484
 Val Ile Ser Val Val Phe Arg Leu Leu Phe Glu Ala Val Phe Met Tyr
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Val Phe Tyr Leu Leu Tyr Pro Gly Tyr Ala Met Val Arg Leu Val Lys
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ccc act gag aaa acc gtc ttc act gtc ttt atg ctc gcc gcc tcc ggc 628
 Pro Thr Glu Lys Thr Val Phe Thr Val Phe Met Leu Ala Ala Ser Gly
 185 190 195

atc tgc att atc ctc aac gtg gcg gag gtg gtg tac ctc atc atc cgg 676
 Ile Cys Ile Ile Leu Asn Val Ala Glu Val Val Tyr Leu Ile Ile Arg
 200 205 210 215

gcc tgt gcc cgc cgt gct cag cgc cgc tcc aat ccg ccc tcc cgc aag 724
 Ala Cys Ala Arg Arg Ala Gln Arg Arg Ser Asn Pro Pro Ser Arg Lys
 220 225 230

ggc tcg ggc ttc ggc cac cgc ctc tca cct gaa tac aag cag aat gag 772
 Gly Ser Gly Phe Gly His Arg Leu Ser Pro Glu Tyr Lys Gln Asn Glu
 235 240 245

atc aac aag ctg ctg agc gag cag gat ggc tct ctg aaa gac ata ctg 820
 Ile Asn Lys Leu Leu Ser Glu Gln Asp Gly Ser Leu Lys Asp Ile Leu
 250 255 260

cgc cgc agt cct ggc act ggg gcc ggg ctg gct gag aag agc gac cga 868
 Arg Arg Ser Pro Gly Thr Gly Ala Gly Leu Ala Glu Lys Ser Asp Arg
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 Cys Ser Ala Cys
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<212> PRT

<213> Rattus norvegicus

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Tyr	Asp	His	Phe	Phe	Pro	Ile	Ser	His	Val	Arg	Leu	Trp	Ser	Leu	Gln
65					70					75				80	
Leu	Ile	Leu	Val	Ser	Thr	Pro	Ala	Leu	Leu	Val	Ala	Met	His	Val	Ala
				85						90					95

His Gln Gln His Ile Glu Lys Lys Met Leu Arg Leu Glu Gly His Gly			
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Asp Pro Leu His Leu Glu Glu Val Lys Arg His Lys Val His Ile Ser			
115	120	125	
Gly Thr Leu Trp Trp Thr Tyr Val Ile Ser Val Val Phe Arg Leu Leu			
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Phe Glu Ala Val Phe Met Tyr Val Phe Tyr Leu Leu Tyr Pro Gly Tyr			
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Ala Met Val Arg Leu Val Lys Cys Glu Ala Phe Pro Cys Pro Asn Thr			
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Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe Thr Val			
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Phe Met Leu Ala Ala Ser Gly Ile Cys Ile Ile Leu Asn Val Ala Glu			
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Val Val Tyr Leu Ile Ile Arg Ala Cys Ala Arg Arg Ala Gln Arg Arg			
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Pro Glu Tyr Lys Gln Asn Glu Ile Asn Lys Leu Leu Ser Glu Gln Asp			
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<212> DNA

<213> Artificial Sequence

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<223> Artificial insertion sequence obtained from digestion of a plasmid moiety

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<223> PCR primer P1

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<223> PCR Primer P2

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<213> Artificial Sequence

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<223> PCR Primer P3

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